Jouni Tapio Hirvonen

List of Publications by Year
in descending order

93	3,928	87888 38	128289 60
papers	citations	h-index	g-index

95	95	95	5560
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	InÂvitro evaluation of biodegradable lignin-based nanoparticles for drug delivery and enhanced antiproliferation effect in cancer cells. Biomaterials, 2017, 121, 97-108.	11.4	296
2	Dual chitosan/albumin-coated alginate/dextran sulfate nanoparticles for enhanced oral delivery of insulin. Journal of Controlled Release, 2016, 232, 29-41.	9.9	168
3	Stabilizing Agents for Drug Nanocrystals: Effect on Bioavailability. Pharmaceutics, 2016, 8, 16.	4.5	161
4	A Hydrogenâ€Bonded Extracellular Matrixâ€Mimicking Bactericidal Hydrogel with Radical Scavenging and Hemostatic Function for pHâ€Responsive Wound Healing Acceleration. Advanced Healthcare Materials, 2021, 10, e2001122.	7.6	142
5	Microfluidic assisted one-step fabrication of porous silicon@acetalated dextran nanocomposites for precisely controlled combination chemotherapy. Biomaterials, 2015, 39, 249-259.	11.4	133
6	Core/Shell Nanocomposites Produced by Superfast Sequential Microfluidic Nanoprecipitation. Nano Letters, 2017, 17, 606-614.	9.1	123
7	Microfluidic assembly of a nano-in-micro dual drug delivery platform composed of halloysite nanotubes and a pH-responsive polymer for colon cancer therapy. Acta Biomaterialia, 2017, 48, 238-246.	8.3	109
8	Drug nanocrystals â€“ Versatile option for formulation of poorly soluble materials. International Journal of Pharmaceutics, 2018, 537, 73-83.	5.2	103
9	Brinzolamide nanocrystal formulations for ophthalmic delivery: Reduction of elevated intraocular pressure in vivo. International Journal of Pharmaceutics, 2014, 467, 34-41.	5.2	99
10	Functionalization of carboxylated lignin nanoparticles for targeted and pH-responsive delivery of anticancer drugs. Nanomedicine, 2017, 12, 2581-2596.	3.3	96
11	Thiolation and Cellâ€Penetrating Peptide Surface Functionalization of Porous Silicon Nanoparticles for Oral Delivery of Insulin. Advanced Functional Materials, 2016, 26, 3405-3416.	14.9	94
12	Drugâ€Loaded Multifunctional Nanoparticles Targeted to the Endocardial Layer of the Injured Heart Modulate Hypertrophic Signaling. Small, 2017, 13, 1701276.	10.0	82
13	Multistage pH-responsive mucoadhesive nanocarriers prepared by aerosol flow reactor technology: A controlled dual protein-drug delivery system. Biomaterials, 2015, 68, 9-20.	11.4	77
14	Nanostructured Porous Siliconâ€Solid Lipid Nanocomposite: Towards Enhanced Cytocompatibility and Stability, Reduced Cellular Association, and Prolonged Drug Release. Advanced Functional Materials, 2013, 23, 1893-1902.	14.9	72
15	Delivery of therapeutics with nanoparticles: what's new in cancer immunotherapy?. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1421.	6.1	72
16	Peptide-guided resiquimod-loaded lignin nanoparticles convert tumor-associated macrophages from M2 to M1 phenotype for enhanced chemotherapy. Acta Biomaterialia, 2021, 133, 231-243.	8.3	72
17	Conductive vancomycin-loaded mesoporous silica polypyrrole-based scaffolds for bone regeneration. International Journal of Pharmaceutics, 2018, 536, 241-250.	5.2	65
18	Nanocrystal-based per-oral itraconazole delivery: Superior in vitro dissolution enhancement versus SporanoxÂ® is not realized in in vivo drug absorption. Journal of Controlled Release, 2014, 180, 109-116.	9.9	63

#	Article	IF	Citations
19	The Significance of Practical Training in Linking Theoretical Studies with Practice. Higher Education, 2006, 51, 439-464.	4.4	61
20	Onâ€Chip Selfâ€Assembly of a Smart Hybrid Nanocomposite for Antitumoral Applications. Advanced Functional Materials, 2015, 25, 1488-1497.	14.9	60
21	Dualâ€Drug Delivery Using Dextranâ€Functionalized Nanoparticles Targeting Cardiac Fibroblasts for Cellular Reprogramming. Advanced Functional Materials, 2018, 28, 1705134.	14.9	60
22	Preparation and Characterization of Dentin Phosphophorynâ€Derived Peptideâ€Functionalized Lignin Nanoparticles for Enhanced Cellular Uptake. Small, 2019, 15, e1901427.	10.0	57
23	Fabrication and Characterization of Drug-Loaded Conductive Poly(glycerol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (seb Materials & Interfaces, 2020, 12, 6899-6909.	8.0	57
24	Cyclodextrin-Modified Porous Silicon Nanoparticles for Efficient Sustained Drug Delivery and Proliferation Inhibition of Breast Cancer Cells. ACS Applied Materials & Interfaces, 2015, 7, 23197-23204.	8.0	55
25	Nanostructured porous silicon in preclinical imaging: Moving from bench to bedside. Journal of Materials Research, 2013, 28, 152-164.	2.6	54
26	Inhibitory Activity of the Isoflavone Biochanin A on Intracellular Bacteria of Genus Chlamydia and Initial Development of a Buccal Formulation. PLoS ONE, 2014, 9, e115115.	2.5	54
27	A prospective cancer chemo-immunotherapy approach mediated by synergistic CD326 targeted porous silicon nanovectors. Nano Research, 2015, 8, 1505-1521.	10.4	54
28	Biomimetic Engineering Using Cancer Cell Membranes for Designing Compartmentalized Nanoreactors with Organelleâ€Like Functions. Advanced Materials, 2017, 29, 1605375.	21.0	54
29	Engineered Multifunctional Albuminâ€Decorated Porous Silicon Nanoparticles for FcRn Translocation of Insulin. Small, 2018, 14, e1800462.	10.0	53
30	Multifunctional 3Dâ€Printed Patches for Longâ€Term Drug Release Therapies after Myocardial Infarction. Advanced Functional Materials, 2020, 30, 2003440.	14.9	53
31	Quercetinâ€Based Modified Porous Silicon Nanoparticles for Enhanced Inhibition of Doxorubicinâ€Resistant Cancer Cells. Advanced Healthcare Materials, 2017, 6, 1601009.	7.6	49
32	Microfluidics platform for glass capillaries and its application in droplet and nanoparticle fabrication. International Journal of Pharmaceutics, 2017, 516, 100-105.	5.2	47
33	pHâ€Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin. Advanced Healthcare Materials, 2016, 5, 1904-1916.	7.6	44
34	Oral hypoglycaemic effect of GLP-1 and DPP4 inhibitor based nanocomposites in a diabetic animal model. Journal of Controlled Release, 2016, 232, 113-119.	9.9	44
35	A Versatile Carbonic Anhydrase IX Targeting Ligand-Functionalized Porous Silicon Nanoplatform for Dual Hypoxia Cancer Therapy and Imaging. ACS Applied Materials & Interfaces, 2017, 9, 13976-13987.	8.0	44
36	Selfâ€Assembly of Amphiphilic Janus Dendrimers into Mechanically Robust Supramolecular Hydrogels for Sustained Drug Release. Chemistry - A European Journal, 2015, 21, 14433-14439.	3.3	43

#	Article	IF	Citations
37	A Nanoâ€inâ€Nano Vector: Merging the Best of Polymeric Nanoparticles and Drug Nanocrystals. Advanced Functional Materials, 2017, 27, 1604508.	14.9	42
38	Dual-peptide functionalized acetalated dextran-based nanoparticles for sequential targeting of macrophages during myocardial infarction. Nanoscale, 2020, 12, 2350-2358.	5.6	42
39	Surface modification of acetaminophen particles by atomic layer deposition. International Journal of Pharmaceutics, 2017, 525, 160-174.	5.2	40
40	High drug-loaded microspheres enabled by controlled in-droplet precipitation promote functional recovery after spinal cord injury. Nature Communications, 2022, 13, 1262.	12.8	39
41	Systematic inÂvitro and inÂvivo study on porous silicon to improve the oral bioavailability of celecoxib. Biomaterials, 2015, 52, 44-55.	11.4	38
42	Multifunctional Nanotubeâ€“Mucoadhesive Poly(methyl vinyl etherâ€coâ€maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (Delivery. Advanced Healthcare Materials, 2017, 6, 1700629.	7.6	35
43	Platelet Lysate-Modified Porous Silicon Microparticles for Enhanced Cell Proliferation in Wound Healing Applications. ACS Applied Materials & Interfaces, 2016, 8, 988-996.	8.0	33
44	Ultrasonic Processing Technique as a Green Preparation Approach for Diacerein-Loaded Niosomes. AAPS PharmSciTech, 2017, 18, 1554-1563.	3.3	32
45	Intracellular responsive dual delivery by endosomolytic polyplexes carrying DNA anchored porous silicon nanoparticles. Journal of Controlled Release, 2017, 249, 111-122.	9.9	31
46	Bridging the Knowledge of Different Worlds to Understand the Big Picture of Cancer Nanomedicines. Advanced Healthcare Materials, 2018, 7, 1700432.	7.6	30
47	Cardiac Actions of a Small Molecule Inhibitor Targeting GATA4â€“NKX2-5 Interaction. Scientific Reports, 2018, 8, 4611.	3.3	29
48	Targeted Reinforcement of Macrophage Reprogramming Toward M2 Polarization by IL-4-Loaded Hyaluronic Acid Particles. ACS Omega, 2018, 3, 18444-18455.	3.5	28
49	In vitro assessment of biopolymer-modified porous silicon microparticles for wound healing applications. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 635-642.	4.3	25
50	Influence of Surface Chemistry on Ibuprofen Adsorption and Confinement in Mesoporous Silicon Microparticles. Langmuir, 2016, 32, 13020-13029.	3.5	25
51	Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weakâ€Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors. Advanced Materials, 2022, 34, e2108012.	21.0	25
52	Solid formulations by a nanocrystal approach: Critical process parameters regarding scale-ability of nanocrystals for tableting applications. International Journal of Pharmaceutics, 2015, 485, 77-86.	5.2	24
53	Mesoporous Materials and Nanocrystals for Enhancing the Dissolution Behavior of Poorly Water-soluble Drugs. Current Pharmaceutical Biotechnology, 2014, 14, 926-938.	1.6	24
54	Engineered antibody-functionalized porous silicon nanoparticles for therapeutic targeting of pro-survival pathway in endogenous neuroblasts after stroke. Biomaterials, 2020, 227, 119556.	11.4	23

#	Article	IF	Citations
55	Neonatal Fc receptor-targeted lignin-encapsulated porous silicon nanoparticles for enhanced cellular interactions and insulin permeation across the intestinal epithelium. Bioactive Materials, 2022, 9, 299-315.	15.6	23
56	Nanosuspensions of a poorly soluble investigational molecule ODM-106: Impact of milling bead diameter and stabilizer concentration. International Journal of Pharmaceutics, 2020, 587, 119636.	5.2	22
57	Impact of Pore Size and Surface Chemistry of Porous Silicon Particles and Structure of Phospholipids on Their Interactions. ACS Biomaterials Science and Engineering, 2018, 4, 2308-2313.	5.2	21
58	The Second Round of the PHAR-QA Survey of Competences for Pharmacy Practice. Pharmacy (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.6	17
59	Aerosolization, Drug Permeation and Cellular Interaction of Dry Powder Pulmonary Formulations of Corticosteroids with Hydroxypropyl-Î²-Cyclodextrin as a Solubilizer. Pharmaceutical Research, 2017, 34, 25-35.	3.5	17
60	Superfast and controllable microfluidic inking of anti-inflammatory melanin-like nanoparticles inspired by cephalopods. Materials Horizons, 2020, 7, 1573-1580.	12.2	16
61	The PHAR-QA Project: Competency Framework for Pharmacy Practiceâ€"First Steps, the Results of the European Network Delphi Round 1. Pharmacy (Basel, Switzerland), 2015, 3, 307-329.	1.6	15
62	A multifunctional nanocomplex for enhanced cell uptake, endosomal escape and improved cancer therapeutic effect. Nanomedicine, 2017, 12, 1401-1420.	3.3	15
63	Competence-Based Pharmacy Education in the University of Helsinki. Pharmacy (Basel, Switzerland), 2017, 5, 29.	1.6	15
64	Prospective Cancer Therapies Using Stimuliâ€Responsive DNA Nanostructures. Macromolecular Bioscience, 2021, 21, e2100272.	4.1	15
65	Controlled transdermal delivery of leuprorelin by pulsed iontophoresis and ion-exchange fiber. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 594-601.	4.3	14
66	Hospital and Community Pharmacistsâ€™ Perceptions of Which Competences Are Important for Their Practice. Pharmacy (Basel, Switzerland), 2016, 4, 21.	1.6	14
67	What is a Pharmacist: Opinions of Pharmacy Department Academics and Community Pharmacists on Competences Required for Pharmacy Practice. Pharmacy (Basel, Switzerland), 2016, 4, 12.	1.6	13
68	Drug permeation and cellular interaction of amino acid-coated drug combination powders for pulmonary delivery. International Journal of Pharmaceutics, 2016, 504, 89-97.	5.2	13
69	Microparticles to enhance delivery of drugs and growth factors into wound sites. Therapeutic Delivery, 2016, 7, 711-732.	2.2	13
70	Intracellular Delivery of Budesonide and Polydopamine Coâ€Loaded in Endosomolytic Poly(butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 from M1 to M2. Advanced Therapeutics, 2021, 4, 2000058.	3.2	13
71	Investigation of silicon nanoparticles produced by centrifuge chemical vapor deposition for applications in therapy and diagnostics. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 158, 254-265.	4.3	13
72	In Vitro Evaluation of the Therapeutic Effects of Dualâ€Drug Loaded Sperminеâ€Acetalated Dextran Nanoparticles Coated with Tannic Acid for Cardiac Applications. Advanced Functional Materials, 2022, 32, 2109032.	14.9	13

#	Article	IF	Citations
73	Preparation and biological evaluation of ethionamide-mesoporous silicon nanoparticles against Mycobacterium tuberculosis. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 403-405.	2.2	11
74	High-Generation Amphiphilic Janus-Dendrimers as Stabilizing Agents for Drug Suspensions. Biomacromolecules, 2018, 19, 3983-3993.	5.4	11
75	Pharmacy Mentors' Views of Practical Training. Research in Science Education, 2005, 35, 323-345.	2.3	10
76	Topical Iontophoretic Delivery. American Journal of Drug Delivery, 2005, 3, 67-81.	0.6	8
77	Does the Subject Content of the Pharmacy Degree Course Influence the Community Pharmacistâ€™s Views on Competencies for Practice?. Pharmacy (Basel, Switzerland), 2015, 3, 137-153.	1.6	8
78	Pharmacy Practice and Education in Finland. Pharmacy (Basel, Switzerland), 2019, 7, 21.	1.6	7
79	Evaluation of the effects of nanoprecipitation process parameters on the size and morphology of poly(ethylene oxide)-block-polycaprolactone nanostructures. International Journal of Pharmaceutics, 2020, 590, 119900.	5.2	7
80	Systems for Quality Assurance in Pharmacy Education and Training in the European Union. Pharmacy (Basel, Switzerland), 2014, 2, 17-26.	1.6	6
81	The Production of a Framework of Competences for Pharmacy Practice in the European Union. Pharmacy (Basel, Switzerland), 2014, 2, 161-174.	1.6	6
82	A Study on How Industrial Pharmacists Rank Competences for Pharmacy Practice: A Case for Industrial Pharmacy Specialization. Pharmacy (Basel, Switzerland), 2016, 4, 13.	1.6	5
83	Drug Delivery: Thiolation and Cell-Penetrating Peptide Surface Functionalization of Porous Silicon Nanoparticles for Oral Delivery of Insulin (Adv. Funct. Mater. 20/2016). Advanced Functional Materials, 2016, 26, 3374-3374.	14.9	5
84	Nanomedicine: Bridging the Knowledge of Different Worlds to Understand the Big Picture of Cancer Nanomedicines (Adv. Healthcare Mater. 1/2018). Advanced Healthcare Materials, 2018, 7, 1870005.	7.6	5
85	Quantitative Analysis of Porous Silicon Nanoparticles Functionalization by ¹H NMR. ACS Biomaterials Science and Engineering, 2022, 8, 4132-4139.	5.2	5
86	A Description of the European Pharmacy Education and Training Quality Assurance Project. Pharmacy (Basel, Switzerland), 2013, 1, 3-7.	1.6	4
87	How Do European Pharmacy Students Rank Competences for Practice?. Pharmacy (Basel, Switzerland), 2016, 4, 8.	1.6	4
88	Targeted Cancer Therapy: pHâ€Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin (Adv. Healthcare Mater. 15/2016). Advanced Healthcare Materials, 2016, 5, 1834-1834.	7.6	3
89	Drug Delivery: Onâ€Chip Selfâ€Assembly of a Smart Hybrid Nanocomposite for Antitumoral Applications (Adv. Funct. Mater. 10/2015). Advanced Functional Materials, 2015, 25, 1612-1612.	14.9	2
90	Drug Delivery: A Nanoâ€inâ€Nano Vector: Merging the Best of Polymeric Nanoparticles and Drug Nanocrystals (Adv. Funct. Mater. 9/2017). Advanced Functional Materials, 2017, 27, .	14.9	1

#	Article	IF	Citations
91	Nanoreactors: Biomimetic Engineering Using Cancer Cell Membranes for Designing Compartmentalized Nanoreactors with Organelleâ€Like Functions (Adv. Mater. 11/2017). Advanced Materials, 2017, 29, .	21.0	1
92	Inside Cover Image, Volume 9, Issue 1. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1459.	6.1	0
93	Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weakâ€Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors (Adv. Mater. 9/2022). Advanced Materials, 2022, 34, .	21.0	0